

**GAS PURGED NOZZLE****ABSTRACT OF THE DISCLOSURE**

5

A nozzle and method are described for delivering a flow of liquid metal from a metallurgical vessel. In combination with inert gas, the nozzle can shield the flow of liquid metal from oxygen and, additionally, can be used to purge liquid metal residing in the metallurgical vessel. The nozzle includes a substantially gas-

10 impermeable liner surrounded by a permeable composition. The gas-impermeable liner may comprise a resin-bonded material, and the permeable liner is preferably a carbon-bonded or castable refractory. A metal housing may surround the nozzle.